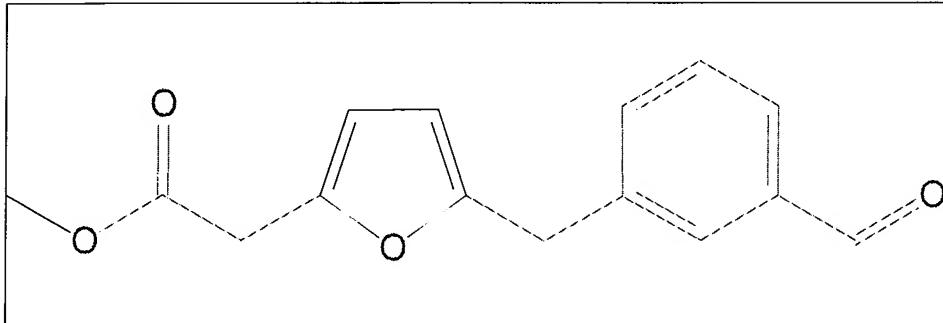


# **EXHIBIT D**



## Substance Identification

Beilstein Registry Number	7928408
Chemical Name	[5-(3-formyl-benzyl)-furan-2-yl]-acetic acid methyl ester
Autoname	[5-(3-formyl-benzyl)-furan-2-yl]-acetic acid methyl ester
Molecular Formula	C <sub>15</sub> H <sub>14</sub> O <sub>4</sub>
Molecular Weight	258.27
Lawson Number	19967, 289
Type of Substance	heterocyclic
Constitution ID	6756493
Tautomer ID	7497273
Beilstein Reference	6-18

## Field Availability List 1-2

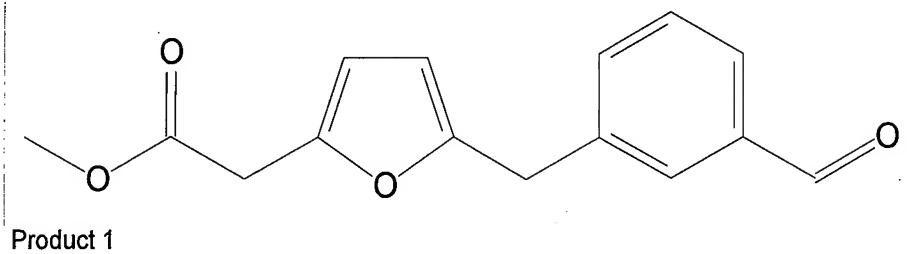
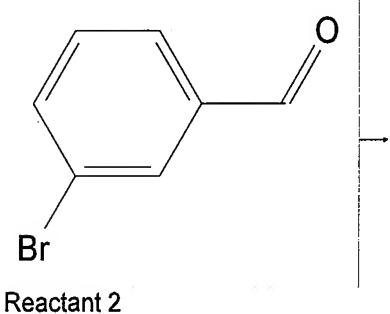
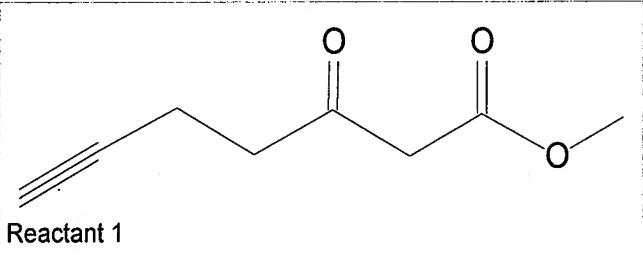
Code	Field Name	Occ.
<u>RX</u> <u>CNR</u>	Reaction Reference	1 1

## Reaction

Reaction ID	<a href="#">4864345</a>
Reactant BRN	<a href="#">5497712</a> 3-oxo-hept-6-ynoic acid methyl ester
Product BRN	<a href="#">1634534</a> 3-bromo-benzaldehyde
No. of Reaction Details	<a href="#">7928408</a> [5-(3-formyl-benzyl)-furan-2-yl]-acetic acid methyl ester
Reaction Classification	1
Yield	Preparation
Reagent	43 percent (BRN=7928408)
Solvent	K <sub>2</sub> CO <sub>3</sub> , Pd(PPh <sub>3</sub> ) <sub>4</sub>
Time	dimethylformamide
Temperature	5.0 hour(s)
Find similar reactions	<a href="#">click here</a>

Ref. 1

[6089565](#); Journal; Cacchi, Sandro; Fabrizi, Giancarlo; Moro, Leonardo; JOCEAH; J. Org. Chem.; EN; 62; 16; 1997; 5327-5332.



## Reference

[6089565](#); Journal; Cacchi, Sandro; Fabrizi, Giancarlo; Moro, Leonardo; JOCEAH; J. Org. Chem.; EN; 62; 16; 1997; 5327-5332.